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THE DIRECTOR OF CENTRAL INTELLIGENCE

WASHINGTON, D.C. 20505

1 September 1982

National Intelligence Council

MEMORANDUM FOR: Counselor James L. Buckley
Department of State

VIA: Richard Aherne

FROM: Maurice C. Ernst
National Intelligence Officer for EconomicsSUBJECT: Data on European and Japanese Exports of Oil and
Gas Equipment to the USSR

1. Unfortunately, even roughly comparable data on exports of oil and gas equipment to the USSR are not available. The statistics provided by Commerce are obtained from four or five digit SITC trade categories which cover a great many things besides oil and gas equipment. Indeed, for some countries oil and gas equipment may be a very small part of these export categories. On the other hand, a great deal of oil and gas equipment may be lost in categories not specified in the Commerce memo. Export data at the seven- or eight-digit level are compiled by the US and some other countries, but cannot be compared.

2. We have tried to attack this problem from another angle--information on Soviet orders for Western oil and gas equipment. The attached tables lay out the information we have on orders for 1972 through mid-1982, for eight categories of oil and gas equipment in each of the Big Seven countries and for all other OECD countries as a group. The orders data come from reasonably specific information. In a few instances they probably cover some services and possibly some construction work, in addition to machinery and equipment. However, they are, I believe, the best measure we have of the relative state and capability of the individual countries exporting oil and gas equipment to the USSR.

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Maurice C. Ernst

Attachments,
As stated

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CONFIDENTIALUSSR: Orders of Oil and Gas Equipment from Western Firms ¹

(Million US \$)

	All Western Countries										
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	Mid-1982
Total	303.6	198.2	541.4	493.0	2,044.0	300.2	792.2	189.8	338.6	3,332.5	259.2
Pump and gas fit equipment	6.0	45.4	5.0	33.5	70.9	5.3	367.8	10.7			9.1
Drilling and completion equipment	1.3	.4	13.3	96.2	80.6	61.9	220.7	27.7	198.3	57.8	82.8
Exploration equipment	1.3	20.8	.4	20.2	119.7	49.8	9.0	51.4	1.5		
Processing equipment ²	74.4	3.3	87.8	230.9	612.4	33.0	29.2	1.7	6.2	138.0	69.5
Compressors & turbines	72.2	31.2	259.7		798.5	1.4		2.8	-	1,794.7	
Other pipeline equipment	77.7	92.3	173.2	111.0	324.8	109.5	115.2	73.1	74.4	636.7	89.9
Construction equipment	68.0	0			24.7	14.9	41.2		58.2	694.1	
Other	2.7	4.3	2.0	1.2	12.4	24.4	9.1	22.4		24.1	17.0

¹ Excluding viet linepipe purchases. Series also probably does not capture purchases of Western services orders for replacement and spare parts, which tend to be small and ad hoc.

² Includes parts of Soviet natural gas and petroleum refining and processing facilities.

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USSR: Order of Oil and Gas Equipment from Western Firms

(Million US \$)

	U.S.										Mid-1982
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	
Total	86.3	75.5	76.2	73.3	321.4	82.5	367.9	34.5	20.9	54.3	--
Pump and gas lift equipment	6.0	45.9		33.5	45.0		66.8	2.7			
Drilling and well completion equipment	1.3	0.4	9.3	15.7	46.7	40.7	201.7	9.0	19.4	14.3	
Exploration equipment	1.3	3.0	.4	.2	48.0	39.0	9.0	15.2	1.5		
Processing equipment	6.0		2.5	1.2			25.0				
Compressors and turbines	1.5	26.2	47.0		143.0						
Other pipeline equipment	2.2		15.0	21.5	53.8	1.9	33.0	7.4			
Construction equipment	68.0				19.2	.9	32.4			40.0	
Other			2.0	1.3	0.7				.2		

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USSR: Orders of Oil and Gas Equipment from Western Firms

	West Germany											(Million US \$)
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	Mid-1982	
Total	0	1.4	95.7	79.5	515.3	1.0	68.0	9.0	97.8	666.1	150.0	
Pump and gas lift equipment												
Drilling and well completion equipment					1.5	.6					1.0	
Exploration equipment				74.5	38.9		10.2		60.9	7.8	70	
Processing equipment												
Compressors and turbines			7.0		10.5							
Other pipeline equipment				57.2	443.5	.4						
Construction equipment		1.4	31.5	5.0	20.9		57.8	9.0	36.7	109.8	10.5	
Other										171		
										2.1		

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USSR: Exports of Oil and Gas Equipment from Western Firms

	France										(Million US \$)
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	Mid-1982
Total	167.9	96.0	110.9	263.6	71.4	50.6	230.8	0	116.0	864.0	7
Pump and gas lift equipment											
Drilling and well completion equipment							226				
Exploration equipment			4.0				4.8		116.0		
Processing equipment		15.9			54.2						
Compressors and turbines	58.4	3.2	77.8	227.2		26.2					
Other pipeline equipment	25.0	5.0									
Construction equipment	71.9	72.0	29.1	36.4	17.2				524.8		
Other	2.6						24.4			331.5	

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USSR: Orders of Oil and Gas Equipment from Western Firms

(Million US \$)

	Italy											
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	Mid-1982	
Total	45.7	25.2	71.3	1.1	15.5	97.4	6.3	42.1	37.7	720.4	24.0	
Pump and gas lift equipment			5.0			3.2						
Drilling and well completion equipment											4.4	
Exploration equipment			2.0									
Processing equipment						5.0						2.0
Compressors and turbines	45.7		19.0		15.0			2.8		614		
Other pipeline equipment	18.9	47.3	1.1	0	89.3	6.0	39.3	37.7	102	12.0		
Construction equipment							3					
Other	4.3			5							10.0	

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USSR: Orders of Oil and Gas Equipment from Western Firms

	(Million US \$)										
	U.K.										
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	Mid-1982
Total	.5	.1	47.8	10.6	218.2	6.0	39.0	2.7	2.0	368.4	32.9
Pump and gas lift equipment							35.0				.2
Drilling and well completion equipment						4.4	4.0		2.0	35.1	10.8
Exploration equipment											
Processing equipment	.1	.5				.4		1.7		42.6	
Compressors and turbines			46.1		46.5					282.1	
Other pipeline equipment	.4		1.2	10.6	169.7	1.2		1.0		18.4	22.1
Construction equipment											
Other	.1										

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USSR: Orders of Oil and Gas Equipment from Western Firms

(Million US \$)

	Japan										Mid- 1982
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	
Total	--	--	75.8	26.0	9.5	44.4	19.4	6.1	64.2	574.6	--
Pump and gas lift equipment											
Drilling and well completion equipment								1.8		6.2	
Exploration equipment					47.5	10.8		36.2			
Processing equipment					600	1.4			6.0	95.0	
Compressors and turbines			42.8		15.5	1.0					
Other pipeline equipment			33.0	26.0	36.8	17.2	10.9	8.9		75.0	
Construction equipment					1.5	14.0	8.5		58.5	398.6	
Other						8.2		22.2			

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USSR: Orders of Oil and Gas Equipment from Western Firms

(Million US\$)

	Canada										
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	Mid 1982
Total	--	--	7.8	26.0	33.0	--	53.3	16.8	--	--	7.6
Pump, gas lift equipment					24.3		40.0	8.0			
Drill and well completion equipment				6.0				1.4			
Exploration equipment				20.0							
Processing equipment					.6		4.2				
Compressors and turbines											
Other pipeline equipment			7.8		4.1		7.4				
Constitution equipment					4.0						
Other							9.1				7.6

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(Million US \$)

Non-Soviet Western Countries

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	Mid-1982
Total	..2	--	55.9	129	17.7	18.3	7.5	15.6	--	84.5	45.3
Pump and gas lift equipment							1.5				
Drilling and well completion equipment							16.8		15.5		
Exploration equipment											
Processing equipment ²					2.5	1.3					
Compressors and turbines				47.6							
Other pipeline equipment	.2		8.2	104	16.4		7.5	.1		23.0	45.3
Construction equipment											61.5
Other											

¹ Excluding Soviet linepipe purchases. Series also probably does not capture purchases of Western services or orders for replacement and spare parts, which tend to be small and ad hoc.

² Includes orders of Soviet natural gas and petroleum refining and processing facilities.

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